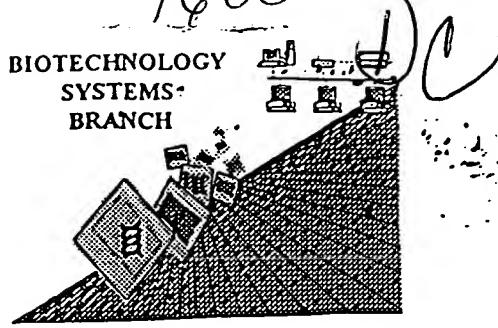


Re-run

1600  
BIOTECHNOLOGY  
SYSTEMS  
BRANCH

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/831758

Source: PCT 09

Date Processed by STIC: 10/18/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>09/831758</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENCLISII "ALPIIA" HEADERS, WHICH WERE INSERTED BY PTC</b>		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>.<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000	
10 <input type="checkbox"/> Invalid <213> Response	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>.<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11 <input checked="" type="checkbox"/> Use of <220>	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>.<223> section is required when <213> response is Unknown or Artificial Sequence	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
13 <input type="checkbox"/> Misuse of n	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:48

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

2 <110> APPLICANT: Takeda Chemical Industries, Ltd.  
W--> 3 <120> TITLE OF INVENTION: Novel Protein and its DNA  
W--> 4 <130> FILE REFERENCE: 2568WOOP  
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/831,758  
C--> 5 <141> CURRENT FILING DATE: 2001-08-17  
5 <150> PRIOR APPLICATION NUMBER: JP 10-323759  
6 <151> PRIOR FILING DATE: 1998-11-13  
7 <150> PRIOR APPLICATION NUMBER: JP 11-060030  
8 <151> PRIOR FILING DATE: 1999-03-08  
9 <150> PRIOR APPLICATION NUMBER: JP 11-106812  
10 <151> PRIOR FILING DATE: 1999-04-14  
11 <150> PRIOR APPLICATION NUMBER: JP 11-166672  
12 <151> PRIOR FILING DATE: 1999-06-14  
13 <150> PRIOR APPLICATION NUMBER: JP 11-221640  
14 <151> PRIOR FILING DATE: 1999-08-04  
15 <150> PRIOR APPLICATION NUMBER: JP 11-259818  
16 <151> PRIOR FILING DATE: 1999-09-14  
W--> 17 <160> NUMBER OF SEQ ID: 58  
W--> 18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 180  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Human  
W--> 22 <400> SEQUENCE: 1  
23 Met Glu Ile Ile Ser Ser Lys Leu Phe Ile Leu Leu Thr Leu Ala Thr  
24 1 5 10 15  
25 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met  
26 20 25 30  
27 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg  
28 35 40 45  
29 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp  
30 50 55 60  
31 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys  
32 65 70 75 80  
33 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val  
34 85 90 95  
35 Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser  
36 100 105 110  
37 Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro  
38 115 120 125  
39 Gln Arg Phe Gly Arg Thr Thr Ala Lys Ser Val Cys Arg Met Leu  
40 130 135 140  
41 Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu  
42 145 150 155 160  
43 Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln  
44 165 170 175  
45 Lys Gln Ser Arg  
46 180

Does Not Comply  
Corrected Distinctive needed

Does Not Comply  
Corrected Distinctive needed

Entered: "Artificial Sequence" in field 213; mandatory explanation in field 220 is required.

See page 2 of 9.  
See Error Summary Sheet.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:48

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

47 <210> SEQ ID NO: 2  
48 <211> LENGTH: 540  
49 <212> TYPE: DNA  
50 <213> ORGANISM: Human  
W--> 51 <400> SEQUENCE: 2  
C--> 52 atggaaatatacatcaaaa actattcattttttagactt tagccacttc aagcttggta 60  
53 acatcaaaca ttttttgtgc agatgaatta gtatgtcca atcttcacag caaagaaaat 120  
54 tatgacaaat attctgagcc tagaggataccaaaaggaaagaacgct caattttgag 180  
55 gaattaaaag attggggacc aaaaaatgtt attaagatga gtacacccgtc agtcaataaa 240  
56 atgccacact cttcgccaa cttgcccatttggatggaga ggaacgttca agaagaaaga 300  
57 agtgcgtggag caacagccaa cctgcctctg agatctgga agaaataatgggatgg 360  
58 gtgagacgtt ttccttaacct gccccaaagg tttgggagaa caacaacaacgtc caaaagtgtc 420  
59 tgcaggatgc tgagtgtt gtgtcaagga tccatgcatt caccatgtgc caatgactta 480  
60 ttttactcca tgacctgcca gcaccaagaa atccagaatc ccgatcaaaa acagtcaagg 540  
61 <210> SEQ ID NO: 3  
62 <211> LENGTH: 27  
63 <212> TYPE: DNA  
64 <213> ORGANISM: Artificial Sequence  
W--> 65 <220> FEATURE:  
66 <223> OTHER INFORMATION:  
W--> 67 <400> SEQUENCE: 3  
C--> 68 gggctgcaca tagagactta attttag 27  
69 <210> SEQ ID NO: 4  
70 <211> LENGTH: 27  
71 <212> TYPE: DNA  
72 <213> ORGANISM: Artificial Sequence  
W--> 73 <220> FEATURE:  
74 <223> OTHER INFORMATION:  
W--> 75 <400> SEQUENCE: 4  
C--> 76 ctagaccacc tctatataac tgcccat 27  
77 <210> SEQ ID NO: 5  
78 <211> LENGTH: 30  
79 <212> TYPE: DNA  
80 <213> ORGANISM: Artificial Sequence  
W--> 81 <220> FEATURE:  
82 <223> OTHER INFORMATION:  
W--> 83 <400> SEQUENCE: 5  
C--> 84 gcacatagag acttaattttt agattttagac 30  
85 <210> SEQ ID NO: 6  
86 <211> LENGTH: 27  
87 <212> TYPE: DNA  
88 <213> ORGANISM: Artificial Sequence  
W--> 89 <220> FEATURE:  
90 <223> OTHER INFORMATION:  
W--> 91 <400> SEQUENCE: 6  
C--> 92 catgcacttt gactgggttc caggtat 27  
93 <210> SEQ ID NO: 7  
94 <211> LENGTH: 27  
95 <212> TYPE: DNA

If 213 "Artificial Sequence"  
Then 223 mandatory explanation

If 213 "Artificial Sequence"  
Then 223 mandatory explanation

Same ...

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:48

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

96 <213> ORGANISM: Artificial Sequence  
W--> 97 <220> FEATURE:  
98 <223> OTHER INFORMATION:  
W--> 99 <400> SEQUENCE: 7  
C--> 100 cagctttagg gacaggctcc aggttcc 27  
101 <210> SEQ ID NO: 8  
102 <211> LENGTH: 196  
103 <212> TYPE: PRT  
104 <213> ORGANISM: Human  
W--> 105 <400> SEQUENCE: 8  
106 Met Glu Ile Ile Ser Ser Lys Leu Phe Ile Leu Leu Thr, Leu Ala Thr  
107 1 5 10 15  
108 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met  
109 20 25 30  
110 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg  
111 35 40 45  
112 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp  
113 50 55 60  
114 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys  
115 65 70 75 80  
116 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val  
117 85 90 95  
118 Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser  
119 100 105 110  
120 Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro  
121 115 120 125  
122 Gln Arg Phe Gly Arg Thr Thr Ala Lys Ser Val Cys Arg Met Leu  
123 130 135 140  
124 Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu  
125 145 150 155 160  
126 Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln  
127 165 170 175  
128 Lys Gln Ser Arg Arg Leu Leu Phe Lys Lys Ile Asp Asp Ala Glu Leu  
129 180 185 190  
130 Lys Gln Glu Lys  
131 195  
132 <210> SEQ ID NO: 9  
133 <211> LENGTH: 588  
134 <212> TYPE: DNA  
135 <213> ORGANISM: Human  
W--> 136 <400> SEQUENCE: 9  
C--> 137 atgaaatata ttcatcaaa actattcatt ttattgactt tagccacttc aagcttgtta 60  
138 acatcaaaca tttttgtgc agatgaatta gtgatgtcca atcttcacag caaagaaaaat 120  
139 tatgacaaat attctgagcc tagaggatac ccaaaaggaa aaagaagcct caatttgag 180  
140 gaattaaaaag attggggacc aaaaaatgtt attaagatga gtacacctgc agtcaataaa 240  
141 atgccacact cttcgccaa cttgcattt agattggaa ggaacgttca agaagaaaaga 300  
142 agtgcgtggag caacagccaa cttgcctctg agatctggaa gaaatatgga ggtgagcctc 360  
143 gtgagacgtg ttcctaacct gccccaaagg tttggagaa caacaacagc caaaagtgtc 420  
144 tgcaggatgc tgagtgattt gtgtcaagga tccatgcatt caccatgtgc caatgactta 480

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:48

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

145 ttttactcca tgacctgcca gcaccaagaa atccagaatc ccgatcaaaa acagtcaagg 540  
146 agactgctat tcaagaaaaat agatgatgca gaattgaaac aagaaaaaa 588

147 <210> SEQ ID NO: 10

148 <211> LENGTH: 27

149 <212> TYPE: DNA

150 <213> ORGANISM: Artificial Sequence

W--> 151 <220> FEATURE:

152 <223> OTHER INFORMATION:

W--> 153 <400> SEQUENCE: 10

C--> 154 gccttagagga gatctaggct gggagga 27

155 <210> SEQ ID NO: 11

156 <211> LENGTH: 27

157 <212> TYPE: DNA

158 <213> ORGANISM: Artificial Sequence

W--> 159 <220> FEATURE:

160 <223> OTHER INFORMATION:

W--> 161 <400> SEQUENCE: 11

C--> 162 gggaggaaca tggagaaga aaggagc 27

163 <210> SEQ ID NO: 12

164 <211> LENGTH: 27

165 <212> TYPE: DNA

166 <213> ORGANISM: Artificial Sequence

W--> 167 <220> FEATURE:

168 <223> OTHER INFORMATION:

W--> 169 <400> SEQUENCE: 12

C--> 170 gatggtaat gcatggactg ctggagc 27

171 <210> SEQ ID NO: 13

172 <211> LENGTH: 27

173 <212> TYPE: DNA

174 <213> ORGANISM: Artificial Sequence

W--> 175 <220> FEATURE:

176 <223> OTHER INFORMATION:

W--> 177 <400> SEQUENCE: 13

C--> 178 ttcctcccaa atctcagtgg caggttg 27

179 <210> SEQ ID NO: 14

180 <211> LENGTH: 196

181 <212> TYPE: PRT

182 <213> ORGANISM: Bovine

W--> 183 <400> SEQUENCE: 14

184 Met Glu Ile Ile Ser Leu Lys Arg Phe Ile Leu Leu Met Leu Ala Thr

185 1 5 10 15

186 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Thr Asp Glu Ser Arg Met

187 20 25 30

188 Pro Asn Leu Tyr Ser Lys Lys Asn Tyr Asp Lys Tyr Ser Glu Pro Arg

189 35 40 45

190 Gly Asp Leu Gly Trp Glu Lys Glu Arg Ser Leu Thr Phe Glu Glu Val

191 50 55 60

192 Lys Asp Trp Ala Pro Lys Ile Lys Met Asn Lys Pro Val Val Asn Lys

193 65 70 75 80

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:48

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

194 Met Pro Pro Ser Ala Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Met  
195 85 90 95  
196 Glu Glu Glu Arg Ser Thr Arg Ala Met Ala His Leu Pro Leu Arg Leu  
197 100 105 110  
198 Gly Lys Asn Arg Glu Asp Ser Leu Ser Arg Trp Val Pro Asn Leu Pro  
199 115 120 125  
200 Gln Arg Phe Gly Arg Thr Thr Ala Lys Ser Ile Thr Lys Thr Leu  
201 130 135 140  
202 Ser Asn Leu Leu Gln Gln Ser Met His Ser Pro Ser Thr Asn Gly Leu  
203 145 150 155 160  
204 Leu Tyr Ser Met Ala Cys Gln Pro Gln Glu Ile Gln Asn Pro Gly Gln  
205 165 170 175  
206 Lys Asn Leu Arg Arg Arg Gly Phe Gln Lys Ile Asp Asp Ala Glu Leu  
207 180 185 190  
208 Lys Gln Glu Lys  
209 195  
211 <210> SEQ ID NO: 15  
212 <211> LENGTH: 588  
213 <212> TYPE: DNA  
214 <213> ORGANISM: Bovine

W--> 215 <400> SEQUENCE: 15

C--> 216 atggaaattta tttcatttaaa acgattcatt ttattgtatgt tagccacttc aagcttggta 60  
217 acatcaaaca tcctctgcac agacgaatca aggatgccca atctttacag caaaaagaat 120  
218 tatgacaaat attccgagcc tagaggagat ctaggctggg agaaaagaaag aagtcttact 180  
219 tttaaagattt ggctccaaaa attaagatga ataaacctgt agtcaacaaa 240  
220 atgccaccc ttgcagccaa cctgccactg agatttggga ggaacatgga agaagaagg 300  
221 agcacttaggg cgtatggccca cctgcctctg agactcggaa aaaatagaga ggacagcctc 360  
222 tccagatggg tcccaaatct gccccagagg ttggaaagaa caacaacagc caaaagcatt 420  
223 accaagaccc ttagtaattt gctccagcag tccatgcatt caccatctac caatggctta 480  
224 ctctactcca tggcctgcca gccccaaatccagaatc ctggtaaaaaa gaacctaaagg 540  
225 agacggggat tccagaaaat agatgtatca gaattgaaac aagaaaaaa 588

227 <210> SEQ ID NO: 16

228 <211> LENGTH: 27

229 <212> TYPE: DNA

230 <213> ORGANISM: Artificial Sequence

W--> 231 <220> FEATURE:

232 <223> OTHER INFORMATION:

W--> 233 <400> SEQUENCE: 16

C--> 234 ccctggggct tcctctgtct tctatgt 27

235 <210> SEQ ID NO: 17

236 <211> LENGTH: 26

237 <212> TYPE: DNA

238 <213> ORGANISM: Artificial Sequence

W--> 239 <220> FEATURE:

240 <223> OTHER INFORMATION:

W--> 241 <400> SEQUENCE: 17

C--> 242 agcgattcat tttattgtact ttagca 26

243 <210> SEQ ID NO: 18

244 <211> LENGTH: 203

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:49

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier  
L:4 M:283 W: Missing Blank Line separator, <130> field identifier  
L:5 M:270 C: Current Application Number differs, Replaced Current Application No  
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:17 M:283 W: Missing Blank Line separator, <160> field identifier  
L:18 M:283 W: Missing Blank Line separator, <210> field identifier  
L:22 M:283 W: Missing Blank Line separator, <400> field identifier  
L:51 M:283 W: Missing Blank Line separator, <400> field identifier  
L:52 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=2  
L:65 M:283 W: Missing Blank Line separator, <220> field identifier  
L:67 M:283 W: Missing Blank Line separator, <400> field identifier  
L:68 M:112 C: (48) String data converted to lower case,  
L:73 M:283 W: Missing Blank Line separator, <220> field identifier  
L:75 M:283 W: Missing Blank Line separator, <400> field identifier  
L:76 M:112 C: (48) String data converted to lower case,  
L:81 M:283 W: Missing Blank Line separator, <220> field identifier  
L:83 M:283 W: Missing Blank Line separator, <400> field identifier  
L:84 M:112 C: (48) String data converted to lower case,  
L:89 M:283 W: Missing Blank Line separator, <220> field identifier  
L:91 M:283 W: Missing Blank Line separator, <400> field identifier  
L:92 M:112 C: (48) String data converted to lower case,  
L:97 M:283 W: Missing Blank Line separator, <220> field identifier  
L:99 M:283 W: Missing Blank Line separator, <400> field identifier  
L:100 M:112 C: (48) String data converted to lower case,  
L:105 M:283 W: Missing Blank Line separator, <400> field identifier  
L:136 M:283 W: Missing Blank Line separator, <400> field identifier  
L:137 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=9  
L:151 M:283 W: Missing Blank Line separator, <220> field identifier  
L:153 M:283 W: Missing Blank Line separator, <400> field identifier  
L:154 M:112 C: (48) String data converted to lower case,  
L:159 M:283 W: Missing Blank Line separator, <220> field identifier  
L:161 M:283 W: Missing Blank Line separator, <400> field identifier  
L:162 M:112 C: (48) String data converted to lower case,  
L:167 M:283 W: Missing Blank Line separator, <220> field identifier  
L:169 M:283 W: Missing Blank Line separator, <400> field identifier  
L:170 M:112 C: (48) String data converted to lower case,  
L:175 M:283 W: Missing Blank Line separator, <220> field identifier  
L:177 M:283 W: Missing Blank Line separator, <400> field identifier  
L:178 M:112 C: (48) String data converted to lower case,  
L:183 M:283 W: Missing Blank Line separator, <400> field identifier  
L:215 M:283 W: Missing Blank Line separator, <400> field identifier  
L:216 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=15  
L:231 M:283 W: Missing Blank Line separator, <220> field identifier  
L:233 M:283 W: Missing Blank Line separator, <400> field identifier  
L:234 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:49

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

L:239 M:283 W: Missing Blank Line separator, <220> field identifier  
L:241 M:283 W: Missing Blank Line separator, <400> field identifier  
L:242 M:112 C: (48) String data converted to lower case,  
L:247 M:283 W: Missing Blank Line separator, <400> field identifier  
L:278 M:283 W: Missing Blank Line separator, <400> field identifier  
L:279 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo-19  
L:294 M:283 W: Missing Blank Line separator, <220> field identifier  
L:296 M:283 W: Missing Blank Line separator, <400> field identifier  
L:297 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:297 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:297 M:112 C: (48) String data converted to lower case,  
L:302 M:283 W: Missing Blank Line separator, <220> field identifier  
L:304 M:283 W: Missing Blank Line separator, <400> field identifier  
L:305 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:305 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:305 M:112 C: (48) String data converted to lower case,  
L:310 M:283 W: Missing Blank Line separator, <220> field identifier  
L:312 M:283 W: Missing Blank Line separator, <400> field identifier  
L:313 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:313 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:313 M:112 C: (48) String data converted to lower case,  
L:318 M:283 W: Missing Blank Line separator, <220> field identifier  
L:320 M:283 W: Missing Blank Line separator, <400> field identifier  
L:321 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23  
L:321 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23  
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:321 M:112 C: (48) String data converted to lower case,  
L:326 M:283 W: Missing Blank Line separator, <220> field identifier  
L:328 M:283 W: Missing Blank Line separator, <400> field identifier  
L:329 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24  
L:329 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24  
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:329 M:112 C: (48) String data converted to lower case,  
L:334 M:283 W: Missing Blank Line separator, <220> field identifier  
L:336 M:283 W: Missing Blank Line separator, <400> field identifier  
L:337 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25  
L:337 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:337 M:112 C: (48) String data converted to lower case,  
L:342 M:283 W: Missing Blank Line separator, <220> field identifier  
L:344 M:283 W: Missing Blank Line separator, <400> field identifier  
L:345 M:112 C: (48) String data converted to lower case,  
L:350 M:283 W: Missing Blank Line separator, <220> field identifier  
L:352 M:283 W: Missing Blank Line separator, <400> field identifier  
L:353 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001  
TIME: 09:51:49

Input Set : A:\PTO.MH.txt  
Output Set: N:\CRF3\10182001\I831758.raw

L:361 M:112 C: (48) String data converted to lower case,  
L:369 M:112 C: (48) String data converted to lower case,  
L:377 M:112 C: (48) String data converted to lower case,  
L:385 M:112 C: (48) String data converted to lower case,  
L:393 M:112 C: (48) String data converted to lower case,  
L:428 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=34  
L:445 M:112 C: (48) String data converted to lower case,  
L:453 M:112 C: (48) String data converted to lower case,  
L:518 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=38  
L:572 M:112 C: (48) String data converted to lower case,  
L:578 M:112 C: (48) String data converted to lower case,  
L:584 M:112 C: (48) String data converted to lower case,  
L:590 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=45  
L:600 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=46  
L:611 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=47  
L:625 M:112 C: (48) String data converted to lower case,  
L:633 M:112 C: (48) String data converted to lower case,  
L:670 M:112 C: (48) String data converted to lower case,

PCT09

RAW SEQUENCE LISTING DATE: 09/27/2001  
 PATENT APPLICATION: US/09/831,758 TIME: 11:58:46

Input Set : A:\Sequence Listing .txt  
 Output Set: N:\CRF3\09272001\I831758.raw

2 <110> APPLICANT: Takeda Chemical Industries, Ltd.  
 W--> 3 <120> TITLE OF INVENTION: Novel Protein and its DNA  
 W--> 4 <130> FILE REFERENCE: 2568WOOP  
 C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/831,758  
 C--> 5 <141> CURRENT FILING DATE: 2001-08-17  
 5 <150> PRIOR APPLICATION NUMBER: JP 10-323759  
 6 <151> PRIOR FILING DATE: 1998-11-13  
 7 <150> PRIOR APPLICATION NUMBER: JP 11-060030  
 8 <151> PRIOR FILING DATE: 1999-03-08  
 9 <150> PRIOR APPLICATION NUMBER: JP 11-106812  
 10 <151> PRIOR FILING DATE: 1999-04-14  
 11 <150> PRIOR APPLICATION NUMBER: JP 11-166672  
 12 <151> PRIOR FILING DATE: 1999-06-14  
 13 <150> PRIOR APPLICATION NUMBER: JP 11-221640  
 14 <151> PRIOR FILING DATE: 1999-08-04  
 15 <150> PRIOR APPLICATION NUMBER: JP 11-259818  
 16 <151> PRIOR FILING DATE: 1999-09-14  
 E--> 17 <160> NUMBER OF SEQ ID: 58

## ERRORED SEQUENCES

210 <210> SEQ ID NO: 15  
 211 <211> LENGTH: 588  
 212 <212> TYPE: DNA  
 213 <213> ORGANISM: Bovine  
 W--> 214 <400> SEQUENCE: 15  
 E--> 214 15  
 E--> 215 <210> SEQ ID NO: 15

Check sequence 15 for actual sequence listing

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/831,758

DATE: 09/27/2001  
TIME: 11:58:47

Input Set : A:\Sequence Listing .txt  
Output Set: N:\CRF3\09272001\I831758.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier  
L:4 M:283 W: Missing Blank Line separator, <130> field identifier  
L:5 M:270 C: Current Application Number differs, Replaced Current Application No  
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:17 M:283 W: Missing Blank Line separator, <160> field identifier  
L:18 M:283 W: Missing Blank Line separator, <210> field identifier  
L:22 M:283 W: Missing Blank Line separator, <400> field identifier  
L:51 M:283 W: Missing Blank Line separator, <400> field identifier  
L:52 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=2  
L:65 M:283 W: Missing Blank Line separator, <220> field identifier  
L:67 M:283 W: Missing Blank Line separator, <400> field identifier  
L:68 M:112 C: (48) String data converted to lower case,  
L:73 M:283 W: Missing Blank Line separator, <220> field identifier  
L:75 M:283 W: Missing Blank Line separator, <400> field identifier  
L:76 M:112 C: (48) String data converted to lower case,  
L:81 M:283 W: Missing Blank Line separator, <220> field identifier  
L:83 M:283 W: Missing Blank Line separator, <400> field identifier  
L:84 M:112 C: (48) String data converted to lower case,  
L:89 M:283 W: Missing Blank Line separator, <220> field identifier  
L:91 M:283 W: Missing Blank Line separator, <400> field identifier  
L:92 M:112 C: (48) String data converted to lower case,  
L:97 M:283 W: Missing Blank Line separator, <220> field identifier  
L:99 M:283 W: Missing Blank Line separator, <400> field identifier  
L:100 M:112 C: (48) String data converted to lower case,  
L:105 M:283 W: Missing Blank Line separator, <400> field identifier  
L:136 M:283 W: Missing Blank Line separator, <400> field identifier  
L:137 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=9  
L:151 M:283 W: Missing Blank Line separator, <220> field identifier  
L:153 M:283 W: Missing Blank Line separator, <400> field identifier  
L:154 M:112 C: (48) String data converted to lower case,  
L:159 M:283 W: Missing Blank Line separator, <220> field identifier  
L:161 M:283 W: Missing Blank Line separator, <400> field identifier  
L:162 M:112 C: (48) String data converted to lower case,  
L:167 M:283 W: Missing Blank Line separator, <220> field identifier  
L:169 M:283 W: Missing Blank Line separator, <400> field identifier  
L:170 M:112 C: (48) String data converted to lower case,  
L:175 M:283 W: Missing Blank Line separator, <220> field identifier  
L:177 M:283 W: Missing Blank Line separator, <400> field identifier  
L:178 M:112 C: (48) String data converted to lower case,  
L:183 M:283 W: Missing Blank Line separator, <400> field identifier  
L:214 M:283 W: Missing Blank Line separator, <400> field identifier  
L:214 M:252 E: No. of Seq. differs, <211> LENGTH:Input:588 Found:0 SEQ:15  
L:215 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO:15  
L:219 M:283 W: Missing Blank Line separator, <400> field identifier  
L:220 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=15

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/831,758

DATE: 09/27/2001  
TIME: 11:58:47

Input Set : A:\Sequence Listing .txt  
Output Set: N:\CRF3\09272001\I831758.raw

L:234 M:283 W: Missing Blank Line separator, <220> field identifier  
L:236 M:283 W: Missing Blank Line separator, <400> field identifier  
L:237 M:112 C: (48) String data converted to lower case,  
L:242 M:283 W: Missing Blank Line separator, <220> field identifier  
L:244 M:283 W: Missing Blank Line separator, <400> field identifier  
L:245 M:112 C: (48) String data converted to lower case,  
L:250 M:283 W: Missing Blank Line separator, <400> field identifier  
L:281 M:283 W: Missing Blank Line separator, <400> field identifier  
L:282 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=19  
L:297 M:283 W: Missing Blank Line separator, <220> field identifier  
L:299 M:283 W: Missing Blank Line separator, <400> field identifier  
L:300 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:300 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:300 M:112 C: (48) String data converted to lower case,  
L:305 M:283 W: Missing Blank Line separator, <220> field identifier  
L:307 M:283 W: Missing Blank Line separator, <400> field identifier  
L:308 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:308 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:308 M:112 C: (48) String data converted to lower case,  
L:313 M:283 W: Missing Blank Line separator, <220> field identifier  
L:315 M:283 W: Missing Blank Line separator, <400> field identifier  
L:316 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:316 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:316 M:112 C: (48) String data converted to lower case,  
L:321 M:283 W: Missing Blank Line separator, <220> field identifier  
L:323 M:283 W: Missing Blank Line separator, <400> field identifier  
L:324 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23  
L:324 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23  
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:324 M:112 C: (48) String data converted to lower case,  
L:329 M:283 W: Missing Blank Line separator, <220> field identifier  
L:331 M:283 W: Missing Blank Line separator, <400> field identifier  
L:332 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24  
L:332 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24  
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:332 M:112 C: (48) String data converted to lower case,  
L:337 M:283 W: Missing Blank Line separator, <220> field identifier  
L:339 M:283 W: Missing Blank Line separator, <400> field identifier  
L:340 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25  
L:340 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25  
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:340 M:112 C: (48) String data converted to lower case,  
L:345 M:283 W: Missing Blank Line separator, <220> field identifier  
L:347 M:283 W: Missing Blank Line separator, <400> field identifier  
L:348 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/831,758

DATE: 09/27/2001  
TIME: 11:58:47

Input Set : A:\Sequence Listing .txt  
Output Set: N:\CRF3\09272001\I831758.raw

L:353 M:283 W: Missing Blank Line separator, <220> field identifier  
L:356 M:112 C: (48) String data converted to lower case,  
L:364 M:112 C: (48) String data converted to lower case,  
L:372 M:112 C: (48) String data converted to lower case,  
L:380 M:112 C: (48) String data converted to lower case,  
L:388 M:112 C: (48) String data converted to lower case,  
L:396 M:112 C: (48) String data converted to lower case,  
L:431 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=34  
L:448 M:112 C: (48) String data converted to lower case,  
L:456 M:112 C: (48) String data converted to lower case,  
L:521 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=38  
L:575 M:112 C: (48) String data converted to lower case,  
L:581 M:112 C: (48) String data converted to lower case,  
L:587 M:112 C: (48) String data converted to lower case,  
L:593 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=45  
L:603 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=46  
L:614 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=47  
L:628 M:112 C: (48) String data converted to lower case,  
L:636 M:112 C: (48) String data converted to lower case,  
L:673 M:112 C: (48) String data converted to lower case,  
L:17 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (58) Counted (59)

STATISTICS SUMMARY  
PATENT APPLICATION: US/09/831,758

DATE: 09/27/2001  
TIME: 11:58:47

Input Set : A:\Sequence Listing .txt  
Output Set: N:\CRF3\09272001\I831758.raw

Application Serial Number: US/09/831,758

Alpha or Numeric: Numeric

Application Class:

Application File Date: 08-17-2001

Art Unit: PCT09

Software Application:

Total Number of Sequences: 59

Total Nucleotides: 9253

Total Amino Acids: 2059

Number of Errors: 3

Number of Warnings: 116

Number of Corrections: 362

#### MESSAGE SUMMARY

112 C: 180 ((48) String data converted to lower case)  
203 E: 1 (No. of Seq. differs)  
212 E: 1 ((34) Invalid or duplicate Sequence ID Number)  
252 E: 1 (No. of Seq. differs)  
258 W: 12 (Mandatory Feature missing)  
270 C: 1 (Current Application Number differs)  
271 C: 1 (Current Filing Date, differs)  
283 W: 98 (Missing Blank Line separator)  
341 W: 6 ((46) "n" or "Xaa" used)